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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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on February 5, 2002

Kim Tyree

Kim Tyree

Dated: February 5, 2002

Sir:

Applicant submits herewith seven sheets of acceptable drawings (Figs. 1-11) for the above-identified application.

Accordingly, Applicant submits that this application is condition for grant. Such action is respectfully requested.

Respectfully submitted,

Winward Mmard

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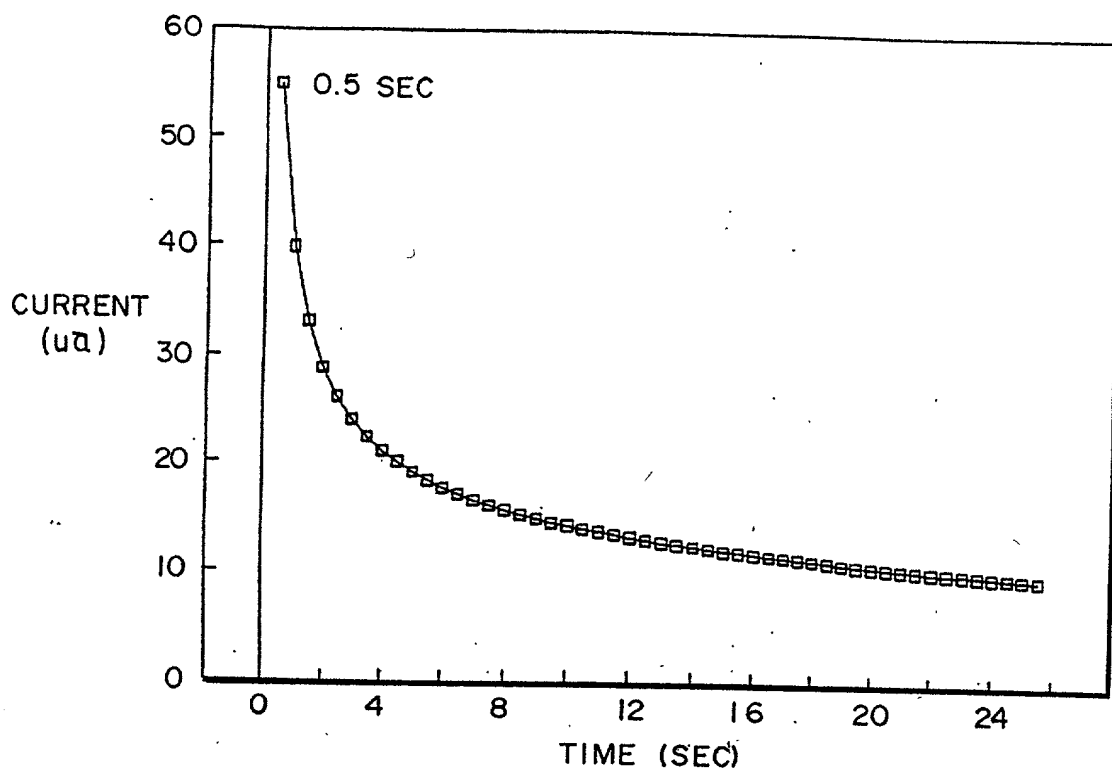


FIG. 1

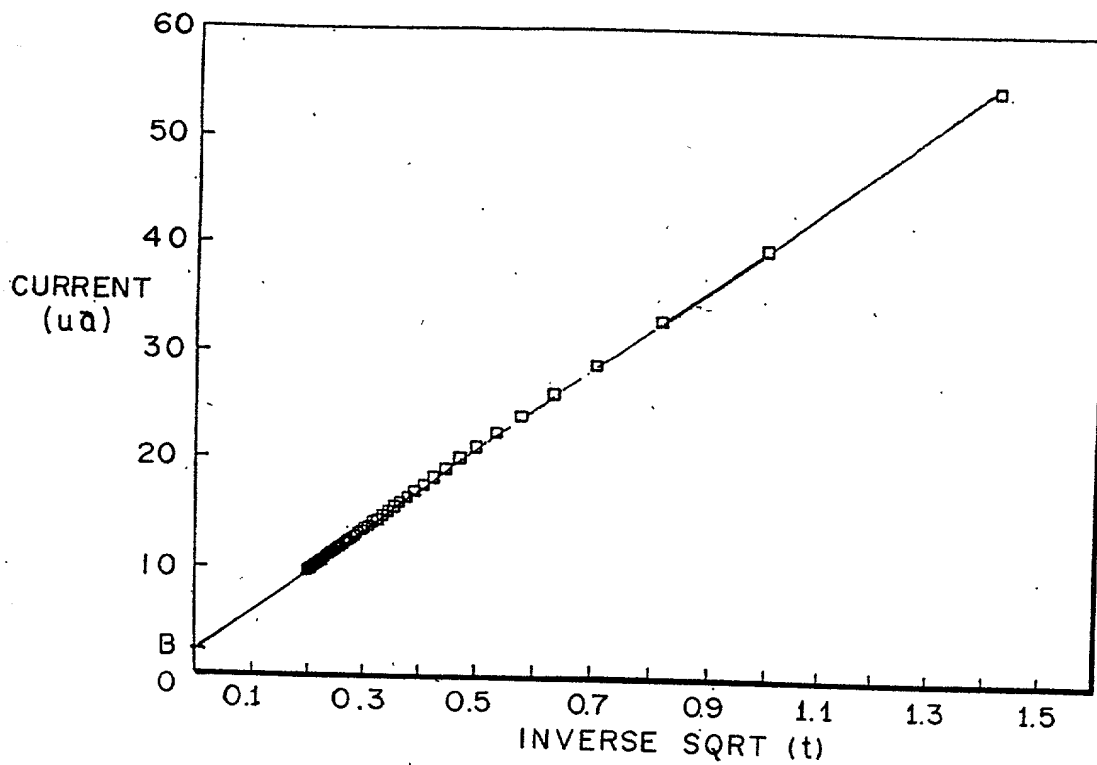


FIG. 2

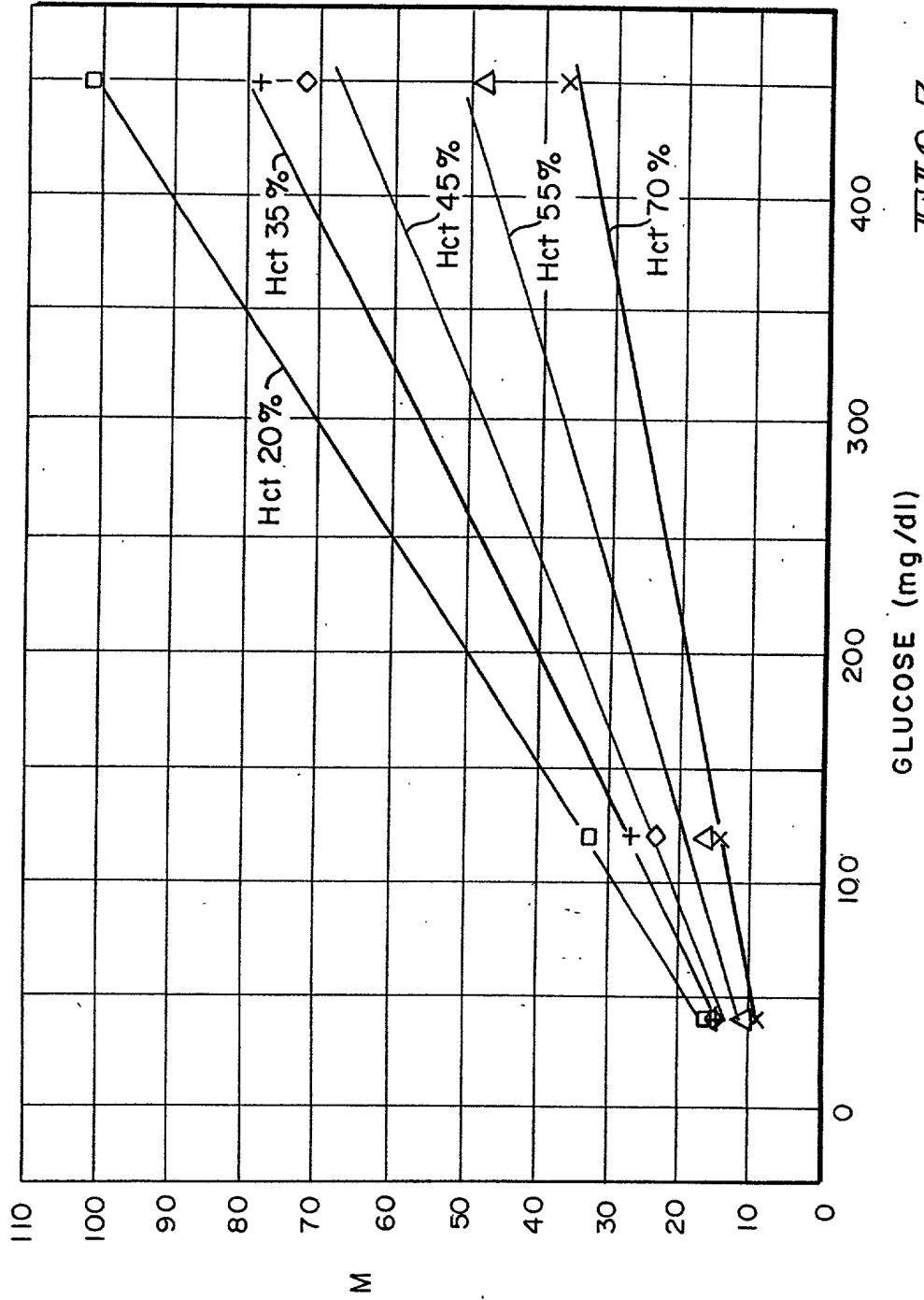


FIG 3

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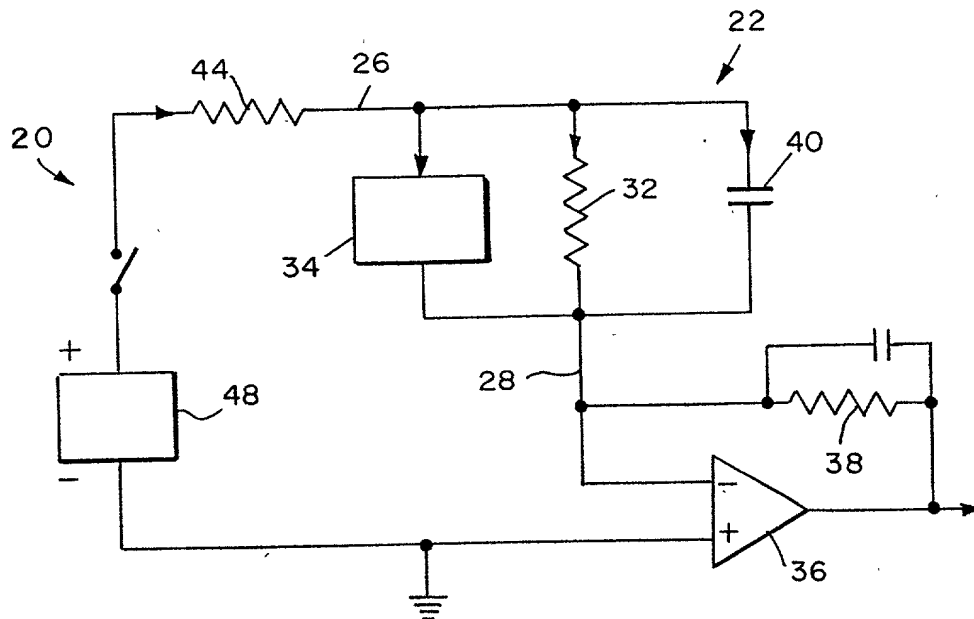


FIG 4

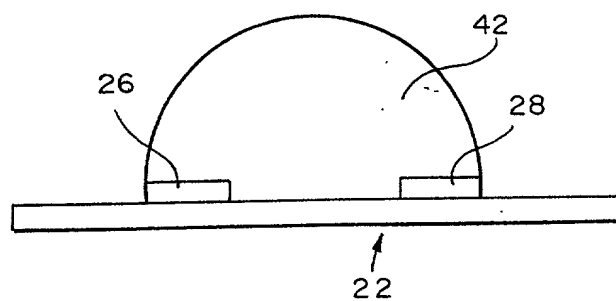
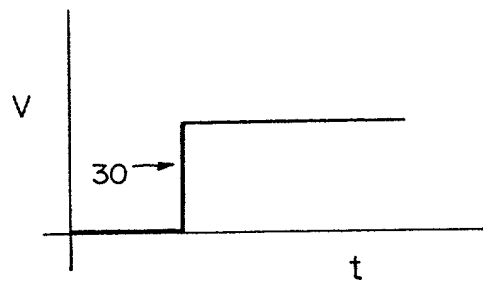
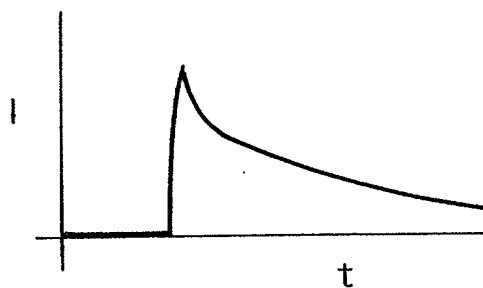


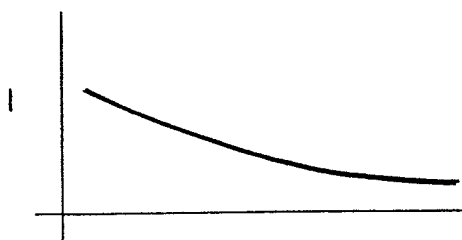
FIG 5



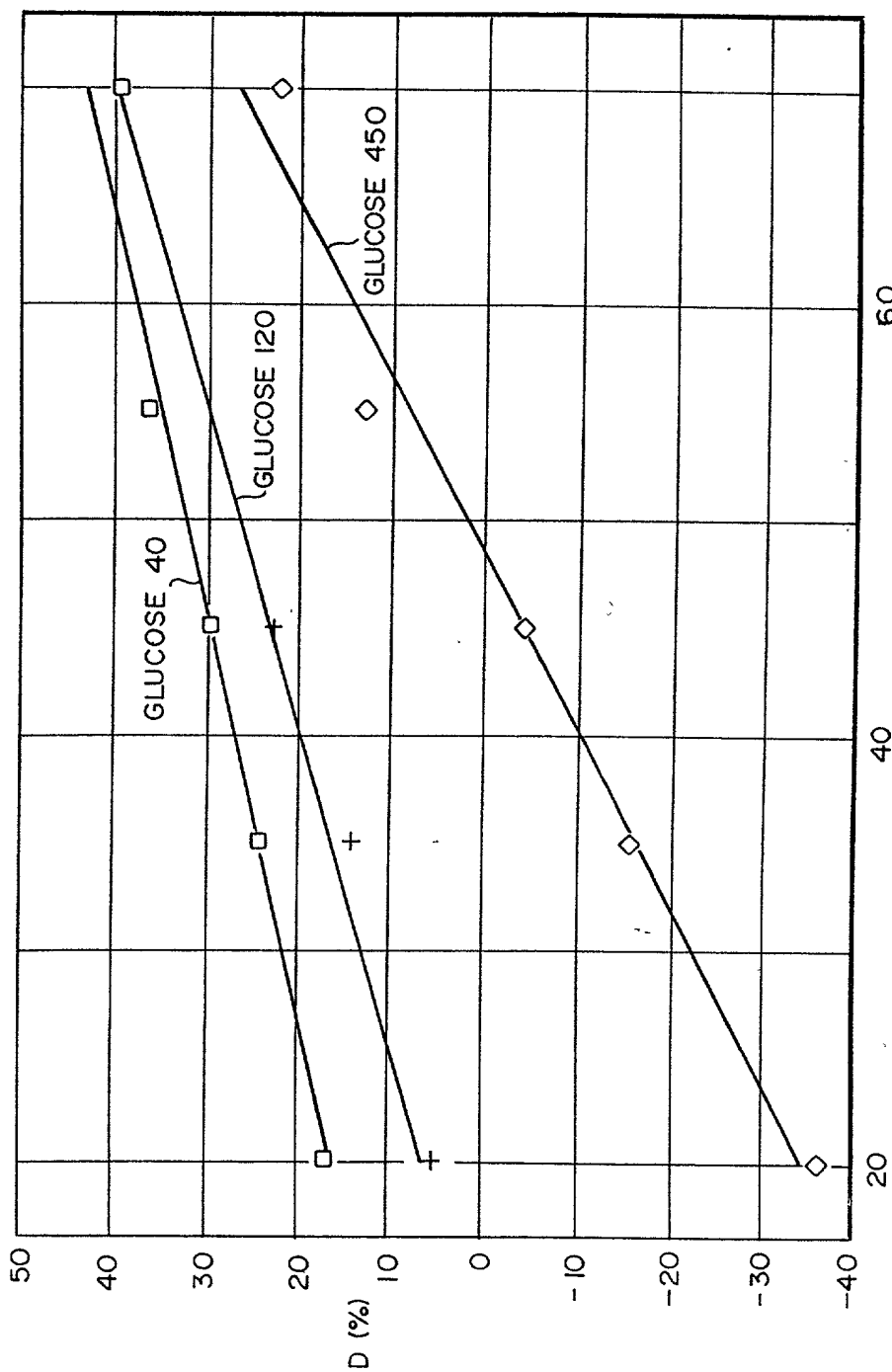
*FIG. 6*



*FIG. 7*



*FIG. 8*



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FIG. 9

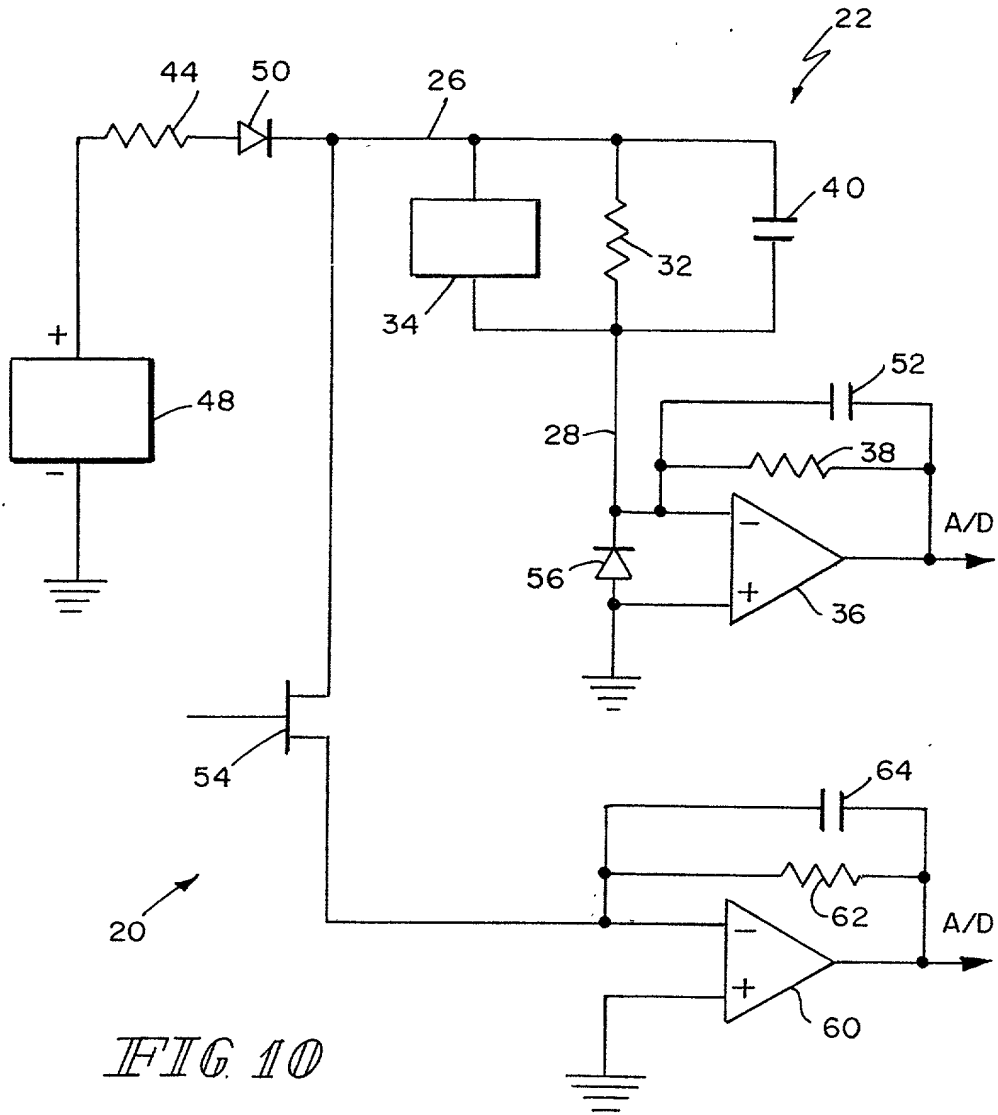


FIG 10

The circuit diagram illustrates a differential amplifier system for measuring the resistance of a variable resistor 20. A voltage source 48 is connected in series with a resistor 44 and a diode 50. The output of this series combination is connected to a node that branches into two paths. One path leads to a resistor 72, which is connected to a diode 74, and then to a node 28. The other path leads to a node 54, which is connected to the base of a transistor 56. The emitter of transistor 56 is grounded. The collector of transistor 56 is connected to a node 26, which is also connected to a resistor 70. The other end of resistor 70 is connected to a node 22, which is also connected to a resistor 72. The output of this second resistor 72 is connected to a node 52. The circuit also includes two operational amplifiers, 36 and 60, each configured as a voltage follower. The non-inverting input of op-amp 36 is connected to node 28, and its output is connected to node 38. The inverting input of op-amp 36 is connected to node 52. The non-inverting input of op-amp 60 is connected to node 54, and its output is connected to node 62. The inverting input of op-amp 60 is connected to node 64. The outputs of the two op-amps, 38 and 62, are connected to A/D converters. A lightning bolt symbol 20 indicates a variable resistor connected between the two input nodes of the op-amps.

FIG. 11